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Reviewer: Keisha Douglas

Timestamp: [year=2008; month=7; day=9; hr=8; min=45; sec=11; ms=555;]

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Application No: 10552857

Version No: 2.1

Input Set:**Output Set:****Started:** 2008-07-09 08:15:35.555**Finished:** 2008-07-09 08:15:38.429**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 874 ms**Total Warnings:** 61**Total Errors:** 0**No. of SeqIDs Defined:** 77**Actual SeqID Count:** 77

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Input Set:

Output Set:

Started: 2008-07-09 08:15:35.555
Finished: 2008-07-09 08:15:38.429
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 874 ms
Total Warnings: 61
Total Errors: 0
No. of SeqIDs Defined: 77
Actual SeqID Count: 77

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

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AgResearch Limited

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leucoanthocyanidine reductase from clover, medic ryegrass or
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<130> M80937719:DLT:cl

<140> 10/552,857

<141> 2005-10-14

<150> 2003901797

<151> 2003-04-14

<150> 2003904369

<151> 2003-08-14

<160> 77

<170> PatentIn version 3.3

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<211> 1447

<212> DNA

<213> Trifolium repens

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<400>  2

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Ile Lys Ser Arg Tyr Met Tyr Leu Thr Glu Glu Ile Leu Lys Glu Asn
65              70              75              80

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195 200 205

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Gly Ser Asp Pro Val Pro Glu Ile Glu Lys Pro Ile Phe Glu Met Val
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245 250 255

His Leu Arg Glu Ala Gly Leu Thr Phe His Leu Leu Lys Asp Val Pro
260 265 270

Gly Ile Val Ser Lys Asn Ile Asn Lys Ala Leu Val Glu Ala Phe Gln
275 280 285

Pro Leu Gly Ile Ser Asp Tyr Asn Ser Ile Phe Trp Ile Ala His Pro
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Gly Gly Pro Ala Ile Leu Asp Gln Val Glu Gln Lys Leu Ala Leu Lys
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Pro Glu Lys Met Arg Ala Thr Arg Glu Val Leu Ser Glu Tyr Gly Asn
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 <213> Trifolium repens

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Thr	Val	Lys	Thr	Arg	Tyr	Val	Val	Met	Asn	Glu	Glu	Ile	Leu	Lys	Lys	65	70	75
Tyr	Pro	Glu	Leu	Val	Val	Glu	Gly	Ala	Ser	Thr	Val	Lys	Gln	Arg	Leu	85	90	95
Glu	Ile	Cys	Asn	Glu	Ala	Val	Thr	Gln	Met	Ala	Ile	Glu	Ala	Ser	Gln	100	105	110
Val	Cys	Leu	Lys	Asn	Trp	Gly	Arg	Ser	Leu	Ser	Asp	Ile	Thr	His	Val	115	120	125
Val	Tyr	Val	Ser	Ser	Ser	Glu	Ala	Arg	Leu	Pro	Gly	Gly	Asp	Leu	Tyr	130	135	140
Leu	Ser	Lys	Gly	Leu	Gly	Leu	Asn	Pro	Lys	Ile	Gln	Arg	Thr	Met	Leu	145	150	155
Tyr	Phe	Ser	Gly	Cys	Ser	Gly	Gly	Val	Ala	Gly	Leu	Arg	Val	Ala	Lys	165	170	175
Asp	Val	Ala	Glu	Asn	Asn	Pro	Gly	Ser	Arg	Val	Leu	Leu	Ala	Thr	Ser	180	185	190
Glu	Thr	Thr	Ile	Ile	Gly	Phe	Lys	Pro	Pro	Ser	Val	Asp	Arg	Pro	Tyr	195	200	205
Asp	Leu	Val	Gly	Val	Ala	Leu	Phe	Gly	Asp	Gly	Ala	Gly	Ala	Met	Ile	210	215	220
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Pro Gln Ile Ile Glu Asp Asn Val Glu Gly Phe Cys Asn Lys Leu Ile
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Asp Val Val Gly Leu Glu Asn Lys Glu Tyr Asn Lys Leu Phe Trp Ala
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Val His Pro Gly Gly Pro Ala Ile Leu Asn Arg Val Glu Lys Arg Leu
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Glu Leu Ser Pro Gln Lys Leu Asn Ala Ser Arg Lys Ala Leu Met Asp
325 330 335

Tyr Gly Asn Ala Ser Ser Asn Thr Ile Val Tyr Val Leu Glu Tyr Met
340 345 350

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Lys Ala Phe Pro Ala Gln Val Leu Pro Gln Glu Cys Leu Val Glu Gly
35 40 45

Phe Ile Arg Asp Thr Lys Cys Asp Asp Thr Tyr Ile Lys Glu Lys Leu
50 55 60

Glu Arg Leu Cys Lys Asn Thr Thr Val Lys Thr Arg Tyr Thr Val Met
65 70 75 80

Ser Lys Glu Ile Leu Asp Asn Tyr Pro Glu Leu Ala Ile Asp Gly Thr
85 90 95

Pro Thr Ile Arg Gln Lys Leu Glu Ile Ala Asn Pro Ala Val Val Glu
100 105 110

Met Ala Thr Arg Ala Ser Lys Asp Cys Ile Lys Glu Trp Gly Arg Ser
115 120 125

Pro Gln Asp Ile Thr His Ile Val Tyr Val Ser Ser Ser Glu Ile Arg
130 135 140

Leu Pro Gly Gly Asp Leu Tyr Leu Ala Asn Glu Leu Gly Leu Asn Ser
145 150 155 160

Asp Val Asn Arg Val Met Leu Tyr Phe Leu Gly Cys Tyr Gly Gly Val
165 170 175

Thr Gly Leu Arg Val Ala Lys Asp Ile Ala Glu Asn Asn Pro Gly Ser
180 185 190

Arg Val Leu Leu Thr Thr Ser Glu Thr Thr Ile Leu Gly Phe Arg Pro
195 200 205

Pro Ser Lys Ala Arg Pro Tyr Asp Leu Val Gly Ala Ala Leu Phe Gly
210 215 220

Asp Gly Ala Ala Ala Ala Ile Ile Gly Thr Asp Pro Ile Leu Asn Gln
225 230 235 240

Glu Ser Pro Phe Met Glu Leu Asn His Ala Val Gln Lys Phe Leu Pro

245

250

255

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260 265 270

Phe Lys Leu Gly Arg Asp Leu Pro Gln Lys Ile Glu Asp Asn Ile Glu
275 280 285

Glu Phe Cys Lys Lys Ile Met Ala Lys Ser Asp Val Lys Glu Phe Asn
290 295 300

Asp Leu Phe Trp Ala Val His Pro Gly Gly Pro Ala Ile Leu Asn Lys
305 310 315 320

Leu Glu Asn Ile Leu Lys Leu Lys Ser Asp Lys Leu Asp Cys Ser Arg
325 330 335

Lys Ala Leu Met Asp Tyr Gly Asn Val Ser Ser Asn Thr Ile Phe Tyr
340 345 350

Val Met Glu Tyr Met Arg Asp Tyr Leu Lys Glu Asp Gly Ser Glu Glu
355 360 365

Trp Gly Leu Gly Leu Ala Phe Gly Pro Gly Ile Thr Phe Glu Gly Val
370 375 380